

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference AMS . P52144WO	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/GB 03/05278	International filing date (day/month/year) 03/12/2003	(Earliest) Priority Date (day/month/year) 04/12/2002
Applicant WESTERNGECO SEISMIC HOLDINGS LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

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☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/05278

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01V1/36

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01V

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 771 203 A (SOUBARAS ROBERT) 23 June 1998 (1998-06-23) column 5, line 36 -column 8, line 20 column 19, line 24 -column 20, line 5; claim 1	1,9,14, 16,17
A	--- CANALES L L: "Random noise reduction" SEG EXPANDED ABSTRACTS, XX, XX, 1984, pages 525-527, XP002276771 cited in the application the whole document	1,9,14, 16,17
A	--- WATTS D R ET AL: "Attenuation of marine wave swell noise by stacking in the wavelet packet" SEG EXPANDED ABSTRACTS, XX, XX, 1999, pages 1-4, XP002276772 the whole document	1,9,14, 16,17
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

13 April 2004

Date of mailing of the international search report

29/04/2004

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/05278

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99/60421 A (SCHLUMBERGER CA LTD ;SCHLUMBERGER SERVICES PETROL (FR); OZBEK ALI) 25 November 1999 (1999-11-25) page 4 -page 8	1,9,14, 16,17
A	US 5 191 526 A (LASTER STANLEY J ET AL) 2 March 1993 (1993-03-02) claim 1	1,9,14, 16,17

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 03/05278

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5771203	A	23-06-1998	FR 2725035 A1	29-03-1996
			CA 2177180 A1	28-03-1996
			EP 0730744 A1	11-09-1996
			WO 9609562 A1	28-03-1996
			NO 962079 A	16-07-1996
WO 9960421	A	25-11-1999	AU 758743 B2	27-03-2003
			AU 3942399 A	06-12-1999
			BR 9911036 A	06-02-2001
			CA 2327365 A1	25-11-1999
			CN 1301350 T	27-06-2001
			EA 2612 B1	27-06-2002
			EP 1084426 A1	21-03-2001
			WO 9960421 A1	25-11-1999
			GB 2337592 A ,B	24-11-1999
			ID 27045 A	22-02-2001
			NO 20005865 A	19-01-2001
			NZ 507839 A	28-11-2003
			US 6684160 B1	27-01-2004
US 5191526	A	02-03-1993	NONE	